## SAM (REX/Ops) Operations Meeting 2008.07.15

Adam (typist), Eric, SteveW, SteveS, Jon Yoh, Angela, Randolph, Art, Robert, Anil

Meeting time: 45

Posting these minutes closes

For reports submitted to the meeting...

The report text is in this font

Comments made during the meeting are in this font inline with the report

### Releases:

No new releases.

Releases in the works (fixed means in CVS, but not released into Kits)



#### Issues not assigned to a release

Т	Key	Status	Summary
<b>&gt;</b>	SAMDEV-5	open 🍰	Improve project robustness against DB failures
<b>₽</b>	SAMDEV-1	🗳 Open	Convert station to use omniORB
•	SAMDEV-17	open 🏰	Broken check for modifying global.requestld in Requestlmpl.updateRequestParams

### DØ:

July 10: Shifter Mundal reported: "Noticed on the DHAtAGlance webpage that DB Servers not responding was -999 for a time. However, this number went to 0 after a while." --- Just mentioned it here (I've never seen this).

???? We don't know what this means either. Probably an error code meaning that he couldn't get any information at all. Networking or overloading problem with the machine?

July 14: Memory for the tomcat for the Dataset Definition Web interface has been increased to 1 GB (after the

complaint of DZSAM-144 ---> pointing to problems when the no. of files was 21777).

Is this (probably very old) verison of Tomcat leaking memory?

Possible plan - upgrade Tomcat or move it out of tomcat. Maybe make it some fancy Ajax thing (would have been good for a summer student).

#### Recent unresolved issues:

DZSAM-142: "farm job submissions halted" -- M. Diesburg ---> the limit of forwarding nodes has been increased to deal with this --- apparently a major problem for Mike.

Actually I did not increase the number of slots - the number of running jobs dropped to an ok level.

DZSAM-141: "MC jobs held again" affecting MC jobs in OSG Grid -- J. Snow: CPU spikes observed... no solution yet (as it seems to me).

Part of this is the periodic expressions "outage" but there's another daily outage too that we don't understand. Long term solution is another queueing node for Joel and going to Condor-7.

DZSAM-140 : Complaints about samgrid monitoring page --- <u>samgrid.fnal.gov</u> page seemed to be found. Resolved ??

Page came back - another condor outage??

Robert: d0srv058 is dead (one of the cab cache). Hardware fault and it won't boot -- service call placed. This is maybe 8 TB cache server. Robert told FEF about it.

Adam: Copy of Joel's OSG report...

DZero MC OSG production rose 2.0M events to 4.2M events last week. This is 14% above the average weekly OSG production rate for the past year of 3.7M events.

Production characterization: Good (with commentary).

Two VO specific issues negatively affected OSG production and efficiencies. First was many jobs failing because of missing or invalid parameter specifications for the generator application being run. This quality control failure happens infrequently (but more than I'd like to see) and occurs upstream of production. This problem affected production for a couple of days at the beginnning of the week. Second was related to samgrid infrastructure. Symptom is many grid jobs go to held status at forwarding nodes, bunched in time. This has been occurring repeatedly for several days. Investigations suggest it is related to a "feature" of Condor 6 that is not a problem in Condor 7. This problem causes large inefficiencies in local job running and in other areas of production including

data production. From my point of view the Condor 6 -> 7 upgrade should occur ASAP. On the positive side D0 experienced good production results from OSG despite the VO specific problems.

Andrew has noted there are some problems with the dcaches at UNL and IU. A ticket will be opened and he will be in tomorrow to address them.

### local job efficiencies:

About the same to a little better than last week. For a general OSG cluster I am seeing 3-10% job efficiency. Again optimistically speaking, in light of the VO specific problems mentioned above this result is not so bad. With regard to the effect of the new SE at MWT2-IU, the consolidated numbers per site obscure the story due to the VO problems mentioned above. Looking at the efficiencies of individual jobs at MWT2-IU, the story becomes clear. Many grid jobs at MWT2 had zero efficiency. This was do to bad requests running. Looking at jobs with nonzero efficiency it can be seen that they are in general very high. I

nonzero efficiency it can be seen that they are in general very high. I conclude that the addition of the SE has greatly improved efficieny at MWT2-IU. The strategy of adding SE's to signficant production sites should be pursued with vigor.

Issu	ies: DZSAM	resolved issues from past week (Displaying 3 of 3)
•	DZSAM-145	scheduler samgrid.fnal.gov is not found
•	DZSAM-144	Re: error when using sam
•	DZSAM-143	Unable to find specific event.
Issu	Jes: DZSAM	new issues from past week (Displaying 6 of 6)
•	DZSAM-145	scheduler samgrid.fnal.gov is not found
•	DZSAM-144	Re: error when using sam
•	DZSAM-143	Unable to find specific event.
•	DZSAM-142	farm job submissions halted
•	DZSAM-141	MC jobs held again
•	DZSAM-140	samgrid is in hiding
		1

Issu	ies: DZSAM	unresolved problems (Displaying 8 of 8)
•	DZSAM-142	farm job submissions halted
•	DZSAM-141	MC jobs held again
•	DZSAM-140	samgrid is in hiding
•	DZSAM-129	MC production jobs unable to get files on cab2
•	DZSAM-100	MC Jobs overwhelming SBGRID
•	DZSAM-62	40 MC jobs held over the weekend
•	DZSAM-54	Jobs don't work on Lancaster Forwarding Node
	DZSAM-53	samgrid reporting incorrect status of jobs

## CDF:

Generally quiet shift, w/o major problems. Most notable events:

- Wed./Thu. July 9/10: dcache pools fcdfdata146 and fcdfdata147 offline due to memeory consumption problems (see CDFDCACHE-3 for more informations), Angela/Alex are working on it: open issue.

Notorious fcdf146 is being tested by FEF. Angela says that FEF will try to replace the mother board even if they don't find problems with their tests. Plan for 147 depends on what happens with 146.

- Thu. July 10: CDFDH-171: tapes IAB128 and IAF532 in "NOACCESS" state, fixed by Stan: resolved issue.
- Fri. July 11: CDFDH-172: disk problem with b0csl23. Online experts are working on it: on going.
- Sat. July 12: mover 9940B22 finally back online (bad system disk): resolved issue.
- Sat. July 12: CDFDH-175: dcache pool fcdfdata097 offline (not pingeable), fixed by rebooting (Etta/Mark) next monday (help-desk ticket 118598): resolved issue.
- Sat./Sun. July 12/13: CDFDH-176: Tapes IAB901 and IAD746 in "NOACCESS" state, then same happened for IAB812 and IAF572, message sent to enstore-admin: resolved issue.

Issu	es: CDFDH	resolved issues from past week (Displaying 12 of 12)
•	CDFDH-180	[JIRA] Account created
•	CDFDH-177	SAM registration
•	CDFDH-175	dcache pool fcdfdata097 not pingable
•	CDFDH-172	Warning: Critical Error on b0csl23.fnal.gov
•	CDFDH-171	Tapes IAB128 and IAF532 in "NOACCESS" state
•	CDFDH-170	Reading files
•	CDFDH-169	HelpDesk ticket 118426 has been assigned to you NAKAMURA, KOJI
•	CDFDH-168	Error on upload server fcdfdata322 due to unregistered dataset uhgp6
•	CDFDH-148	Added disk inactive from long time
•	CDFDH-147	sam get dataset offsite
•	CDFDH-142	dcache error for cafjob 3531028?
•	CDFDH-109	SAM problems @ CNAF

Issu	es: CDF ne	w issues from past week (Displaying 13 of 13)
•	CDFDH-190	SAM Registration
•	CDFDH-189	SAM registration
•	CDFDH-180	[JIRA] Account created
•	CDFDH-178	Fwd: Rejected posting to CDF_DISKPOOL_ADMIN@LISTSERV.FNAL
•	CDFDH-177	SAM registration
•	CDFDH-176	4 CDF tapes in "NOACCESS" state
•	CDFDH-175	dcache pool fcdfdata097 not pingable
•	CDFDH-173	reading problem for cdfdca1.fanl.gov data from caf
•	CDFDH-172	Warning: Critical Error on b0csl23.fnal.gov
•	CDFDH-171	Tapes IAB128 and IAF532 in "NOACCESS" state
•	CDFDH-170	Reading files
•	CDFDH-169	HelpDesk ticket 118426 has been assigned to you NAKAMURA, KOJI
•	CDFDH-168	Error on upload server fcdfdata322 due to unregistered dataset uhgp6

Issu	es: CDFDH	unresolved problems (Displaying 17 of 17)
•	CDFDH-190	SAM Registration
•	CDFDH-189	SAM registration
•	CDFDH-178	Fwd: Rejected posting to CDF_DISKPOOL_ADMIN@LISTSERV.FNAL
•	CDFDH-176	4 CDF tapes in "NOACCESS" state
•	CDFDH-174	hi, I am trying to submit a skimming job but
•	CDFDH-173	reading problem for cdfdca1.fanl.gov data from caf
•	CDFDH-165	Problems with file transfers - please investigate
•	CDFDH-164	/pnfs/cdfen mount on ILP
•	CDFDH-162	DH performance ?
•	CDFDH-150	No authroization request
•	CDFDH-139	Long running query from SAM on CDF Offline Production database
•	CDFDH-138	Problems with fcdfdata147
•	CDFDH-134	sam dataset definition problem
•	CDFDH-128	cdf-caf and cdf-fncdfsrv0 stations can get stuck if restarted
•	CDFDH-121	Debugging SAM @ CNAF
•	CDFDH-112	re : fcdfdata135 is offline
•	CDFDH-96	cdf-japan station is down

# MINOS:

### General

Beam returned on Sunday 13 July, down since early June.

Enstore -

DCache -

SAM -

Oracle - Scheduled a 'taking stock' meeting at 09:00 today.

## **OPEN ISSUES**

IT 1146: cannot test existence of sam tape location IT 2071: quadratic project startup time growth

Art wants to know about SL5. Robert has run the stager component on SL5 and it works. CDF is running on SL5.0 with the nameservice, station and DB servers. Robert did discover an issue - service principals would not authenticate. Fix was for Joe Boyd to remove some stuff from the config file.

PLAN -

## DB:

D0:

### Alert(S):

Information for: d0ofprd1
 Increased the max extents to 20, 000 for SAMPRD PROJECT\_FILES TABLE

- Information for: d0ofprd1

Owner Object Type Extents Used Extents Allocated Extents Left

SAMPRD ANALYSIS PROCESSES TABLE 596 600 4

Action: Increased the max extents to 1200

CDF:
Alert(s):

Angela pulled back on the cron job for integration monitoring plots.

MINOS: Alert(s):

No date set yet for migrating to Oracle 11? Also have to worry about kerberos migration.

## Enstore/dCache

Eric: 2 LTO3 tape drives were added for CDF (thanks to Stan!).

Angela has put the dCache JIRA project on the back burner - will use helpdesk instead. Sent two main tickets to the helpdesk. Not much has been done.

Timur complained about JIRA spam to the helpdesk and created his own spam-storm for other people. Unfortunately a user was added with the e-mail of a ticket generating e-mail list. Angela removed the user and stopped the looping.					
	for other p	eople. Unfortunately a use	er was added wi	th the e-mail of a	own spam-storm a ticket generating